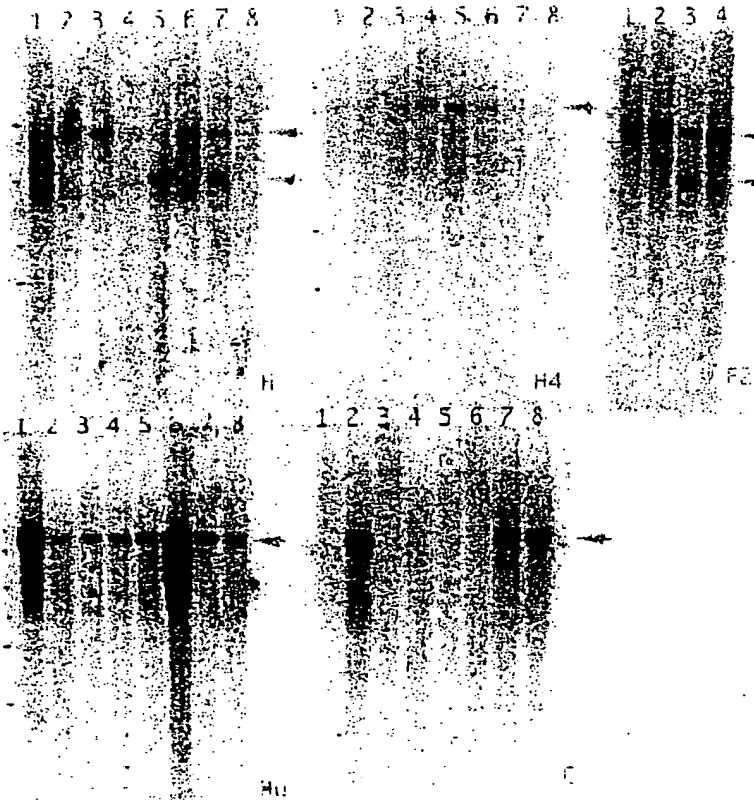


5 / 2 6

~~Figure 5~~

Fig. 6



100

Fig. 5

7-10-1963



H4



F2



0000000000000000

51 DGRLWAGDQILEVNGIDLRKATHDEAINVLRQTPQVRVRLTLRDEAPYKE 100

101 EEVCDTLTIELQKKPGKGLGLSIVGKRNDTGVFVSDIVKGGIADADGRLM 150

151 QGDQILMVNGEDVRNATQEAVAALLKCSLGTVTLEVGRKAGPFHSERRP 200

201 SQSSQVSEGLSSFTFPLSGSSTSESLESSSKKNALASEIQGLRTVEMKK 250

251 GPTDSLGISIAGGVGSPLGDVPIFIAMHPTGVAAQTQKLRVGDRIVTIC 300

301 GTSTEGMTHTQAVNLLKNASGSIEMQVAGGDVSVVTGHQEPASSSLSF 350

351 TGLTSSSIFQDDLGPQCKSITLERGPDGLGFSIVGGYGSPHGDLPIYVK 400

401 TVFAKGAASEDGR LKRGDQII AVNGQSLEGVTHEEAVAILKRTKGTVTLM 450

111

FIG. 2

1	MVCCRRTVPTTQSELDLDCDIJELTEKPHVDLGEFIGSSETEDPVLAM	50	401	GLGMIVRSIJHGGAI SRDGRAIGDCILSINEESTISVTNAQARAMLRRH	450
620	MVCCRRTVPTTALSEVDSLDIHOLEL TEKPHIDLGEFIGSSETEDPVLAM	669	1015	GLGVIVRSIJHGGAI SRDGRAIGDCILSINEESTISLTNAQARAMLRRH	1064
51	TDAGQSTEEVQAPLAWWEAGIQHIELEKSGKGLGFSILDYQDPIDPASTV	100	451	SLIGPDIKITYVPAEHLEEFKISLGQSGRVMALDIFSSYTGRIPELPE	500
670	SDVDQNAEEIQTLAWWEAGIQHIELEKSGRGLGFSILDYQDPIDPANTV	719	1065	SLIGPDIKITYVPAEHLEEFKISLGQAGGIMALDIFSSYTGRIPELPE	1114
101	IIRSLVPGGIAEKDGRLLPGDRLMFVNDVNLENSSLEEAVEALKGAPSG	150	501	REEGEGEESELQNTAYSNWNP RRVELWREPSKLSGISVGGRGMSRLS	550
720	IVIRSLVPGGIAEKDGRLLPGDRLMFVNDVNLENSTLEEAVEALKGAPSG	769	1115	REEGEGEESELQNAAYSSWSDPRRVELWREPSKLSGISVGGRGMSRLS	1164
151	TVRIGVAKPLPLSPEEGYVSAKEDSFLYPHPSCEEAGLADKPLFRADLAL	200	551	NGEVMRGIFIKHVLEDSAPAGKNGTLKPGDRIVE	583
770	MVRIGVAKPLPLSPEEGYVSAKEDTFLCSPHICKEMGLSDKALFRADLAL	819	1165	NGEVMRGIFIKHVLEDSAPAGKNGTLKPGDRIVEVDGMDLROASHEQAVEA	1214
201	VGINDADLVDESTFESPSPENDSIYSTOASILSLHGSSCGDLNHYGSSL	250	584	...APSQSESEPEKAPLCVPPPPPSAFAMGSDHTQSSASKISQVDKE	630
820	IDTPDAESVAESRFESQFSPDNDVYSTOASVLSLHDGACSDGMNYGPSL	869	1265	SDKAPSQSESESEKATILCSVPSSSPSVFSEMSSDYAQP SATTVAEDEKE	1314
251	PSSPPKDVIENTSCDPVLDLHMSLEELYTQNL LERQDENTPSVDISMCPAS	300	631	DEFGYSWKNIERYGTLTGELHMI ELEKHSGLSGLAGNKDRSRMSVFI	680
870	PSSPPKDV.TNSSDLVLGLHLSLEELYTQNL LQRQHAGSPPTDMSPAATS	918	1315	DEFGYSWKNIQERYGTLTGQLHMI ELEKHSGLSGLAGNKDRTRMSVFI	1364
301	GFTINDYTPANAIEQQYECENTIVMTESHL PSEVISSAELPSVLPSAGK	350	681	VGIDPNGAAGKDRGLQIADELLEINGQILYGRSHQNASSI IKCAPSKVKI	730
919	GFTVSDYTPANAVEQKYECANTVAWTPSQLPSG.LSTTELAPALPAVAPK	967	1365	VGIDPTGAAGRDRGLQIADELLEINGQILYGRSHQNASSI IKCAPSKVKI	1414
351	GSEHILLEOSSLACNAECVMLQNVSKESFERTINIAGKNSSLGHTVSANKD	400	731	IFIRNKDAVNQMAVCPGNAVEPLPSNSEN LQNKETEPTVTTSDAAVDLSS	780
968	...YLTEGSSLVSDAESVTLQMSQEA FERTVTIAGKSSSLGHTVSANKD	1014	1415	IFIRNADAVNQMAVCPGSAADPLPSTSESPQNKVEPSITTSASAVDLSS	1464

FIG. 3

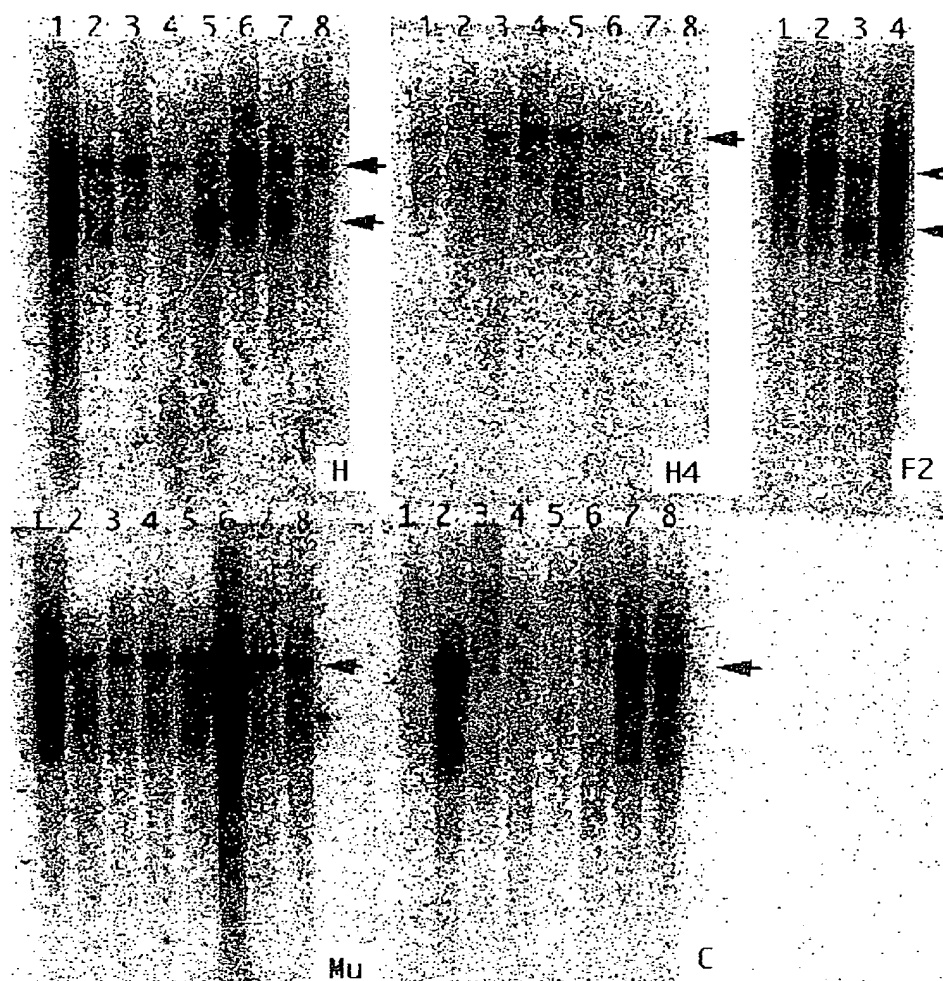


FIG. 6

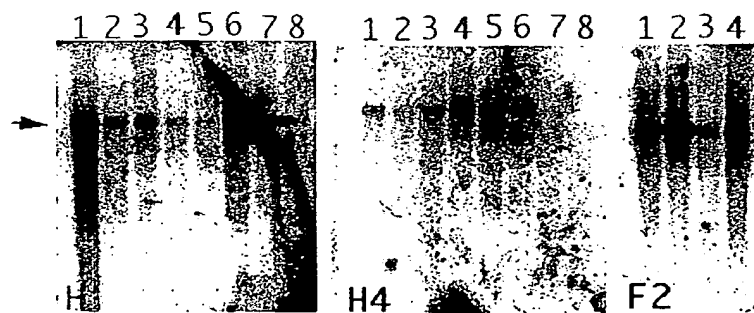
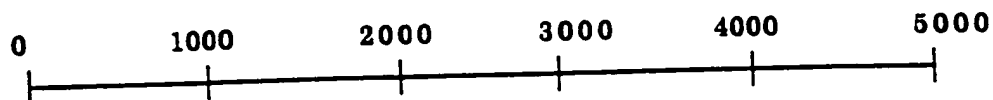


FIG. 5

Probes

NdeI.2kb-#1

BamHI-XbaI



1 292

(amino acid 1)

4410 4880

(amino acid 1373)

cDNA clones

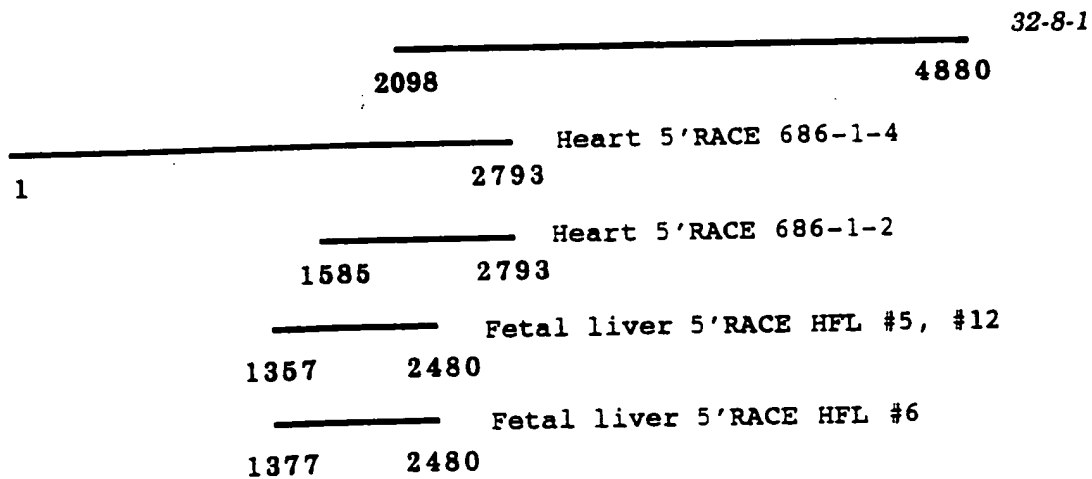


FIG. 7

50

1

PDZ-E	AGIQHIELE.	KGSKGLGFSI	LDYQD.....	PIDPASTVII	IRSLVPGGIA
PDZ-F	QNVSKESFER	TINIAKGNSS	LGMTV.....	SANKDGLGMI	VRSI IHGGAI
PDZ-G	NQPRRVELWR	EPSKSLGISI	VGGRGMG SRL	SNGEVMRGIF	IKHVLEDSPA
PDZ-H	GELHMIELEK	GHS. GLGLSL	AGNKD.....	RSR. M. .SVF	IVGIDPNGAA
PDZ-I	KNVQHLELPK	DQG. GLGIAI	SEEDTLSGVI	IKSLTEHGVA
PDZ-J	GCETTIEISK	GRT. GLGLSI	VGGSD.....	TLL. G. .AFI	IHEVYEEGAA
PDZ-K	CDTLTIELQK	KPGKGLGLSI	VGKRN.....DTGVF	VSDIVKGGIA
PDZ-L	QGLRTVEMKK	GPTDSLGISI	AGGVG.....	SPL. GDVPIF	IAMMHPTGVA
PDZ-M	PQCKSITLER	GP. DGLGFSI	VGGYG.....	SPH. GDLPIY	VKTVFAKGAA

96

51

PDZ-E	EKDGRLLPGD	RLMFVNDVNL	ENSSLEEAVE	ALKGAPSGTV	RIGVAK
PDZ-F	SRDGRIAIGD	CILSINEEST	ISVTNAQARA	MLRRHSLIGP	DIKITY
PDZ-G	GKNGTLKPGD	RIVEAPSQSE	SEPEKAPLCS	VPPPPPSAFA	EMGSDH
PDZ-H	GKDGRLQIAD	ELLEINGQIL	YGRSHQNASS	IIKCAP. SKV	KIIFIR
PDZ-I	ATDGRLKVG D	QILAVDDEIV	VGYPiEKFIS	LLKTAKM. TV	KLTIHA
PDZ-J	CKDGRLWAGD	QILEVNGIDL	RKATHDEAIN	VL RQTP. QRV	RLTL YR
PDZ-K	DPDGRLIQGD	QILLVNGEDV	RNAS. QEAVA	ALLKCSLGT V	TLEVGR
PDZ-L	AQTQKL RVGD	RIVTICGTST	EGMTHTQAVN	LLKNAS. GSI	EMQVVA
PDZ-M	SEDGRLKRGD	QIIAVNGQSL	EGVTHEEAVA	ILKRTK. GTV	TLMVLS

FIG. 8

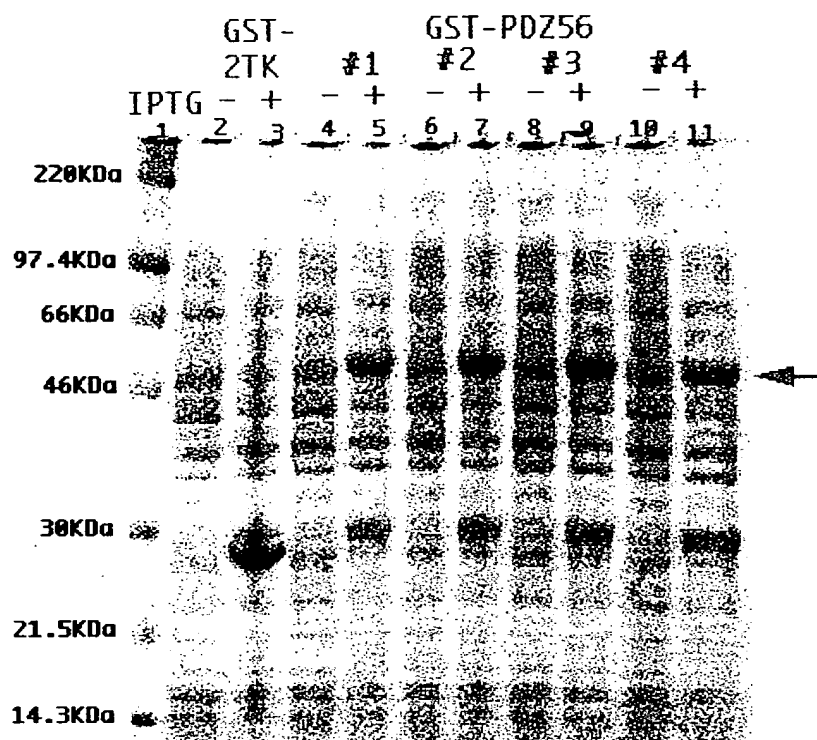


FIG. 9

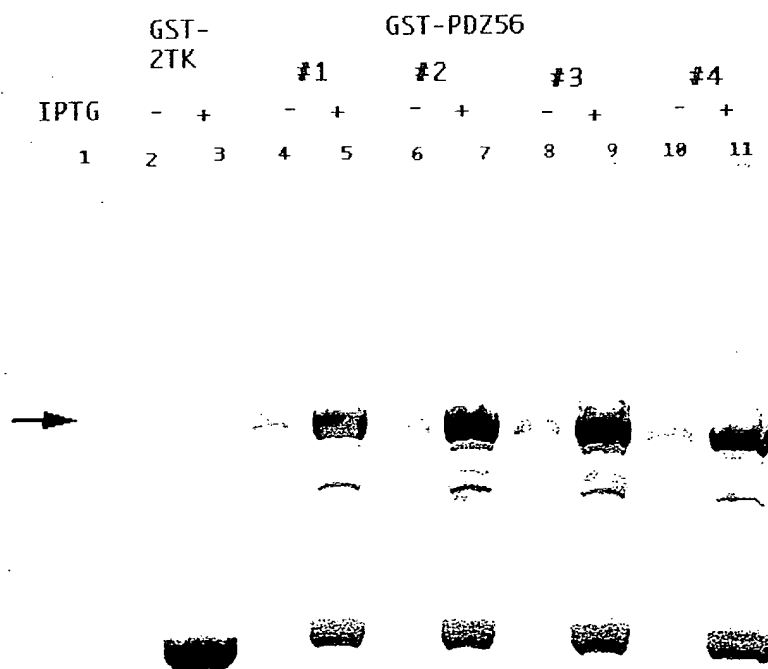


FIG. 10

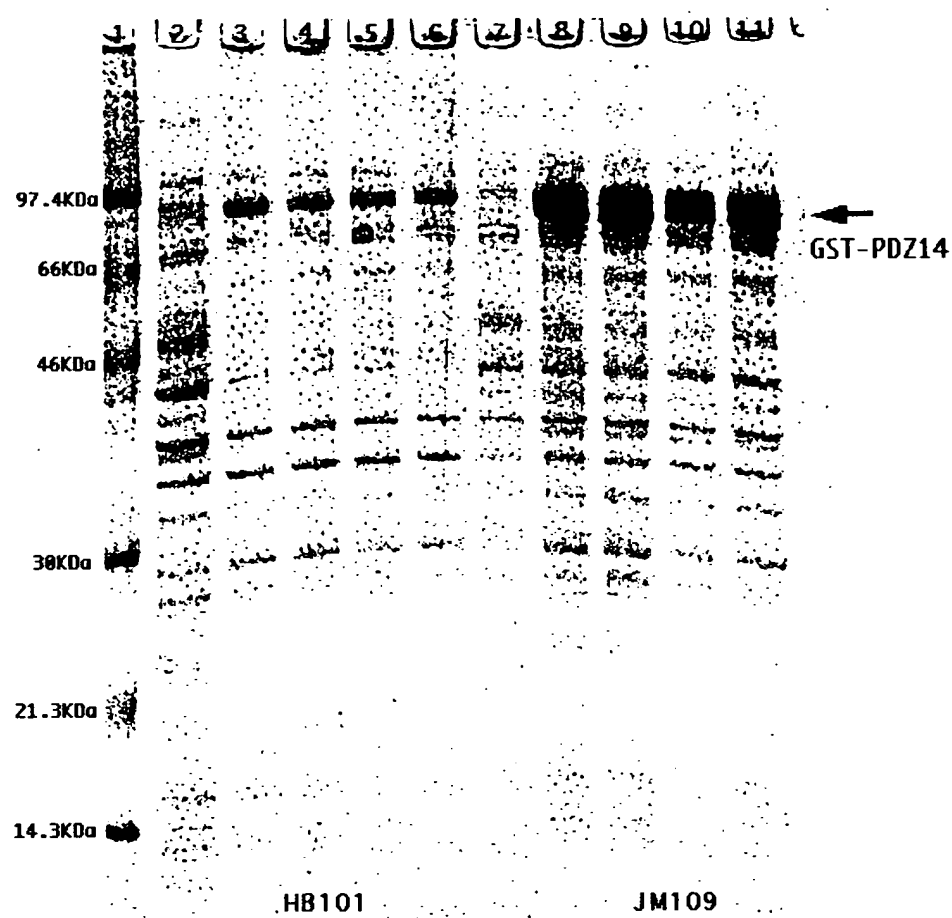


FIG. 11

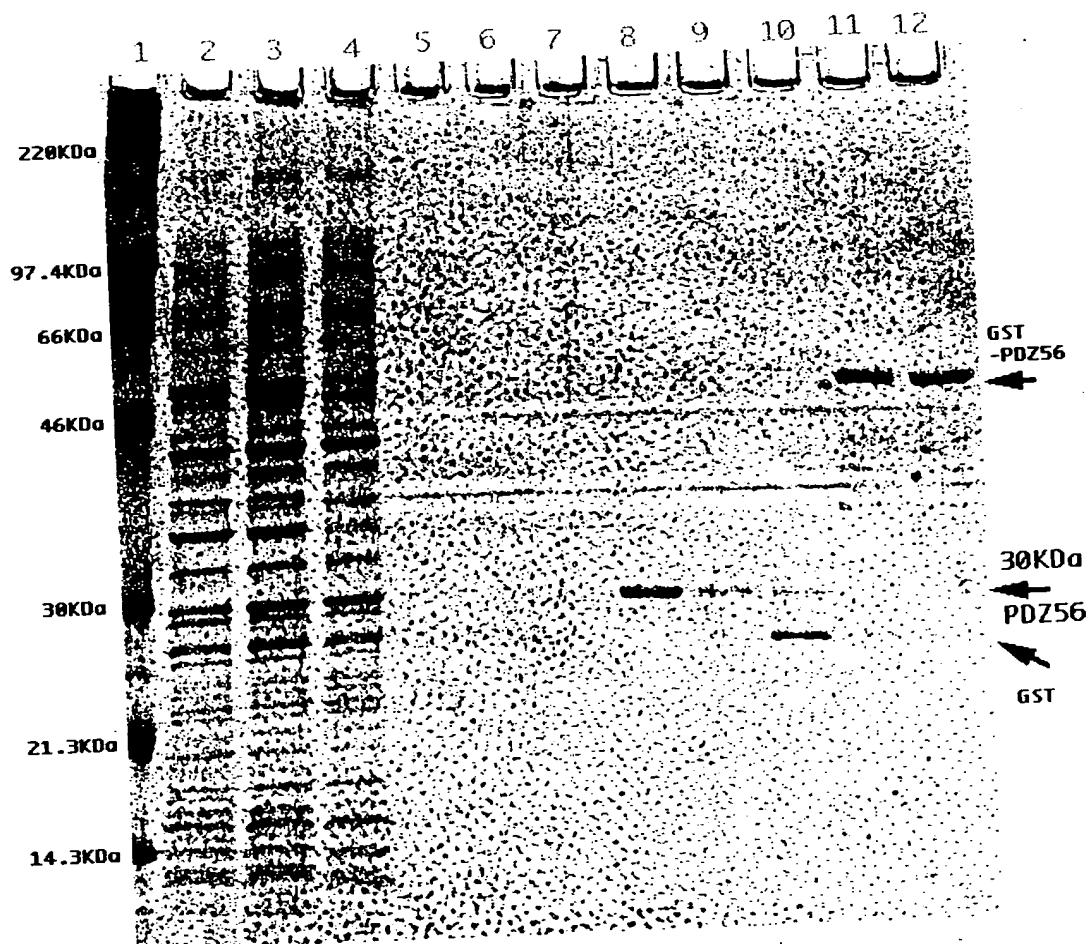


FIG. 12

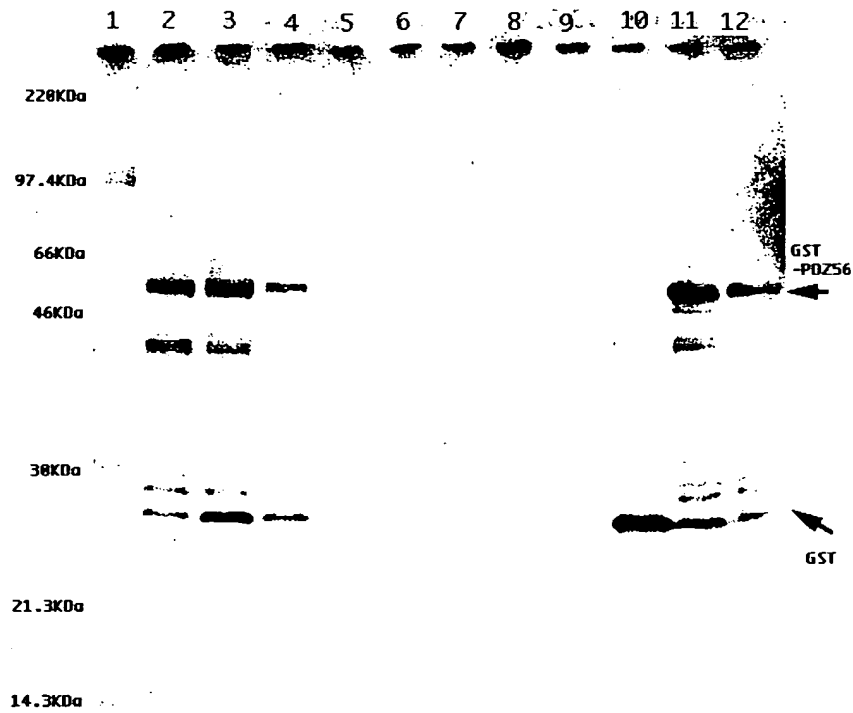


FIG. 13

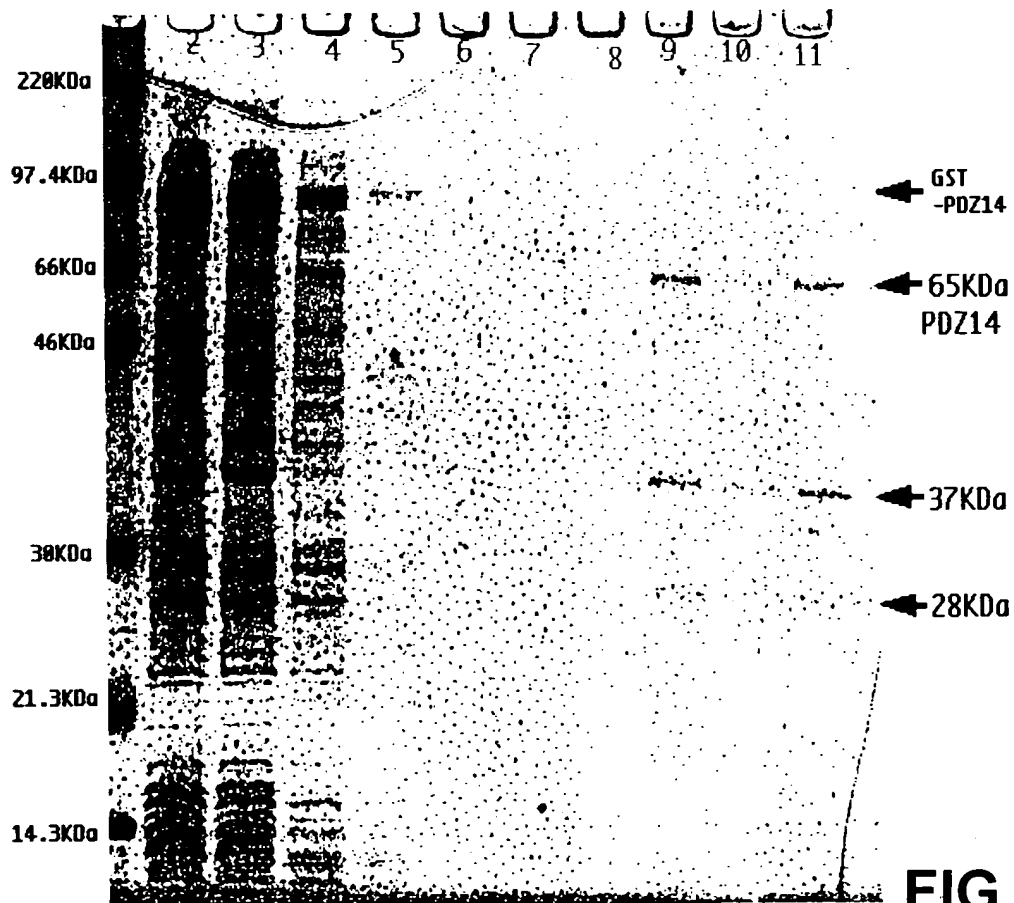


FIG. 14

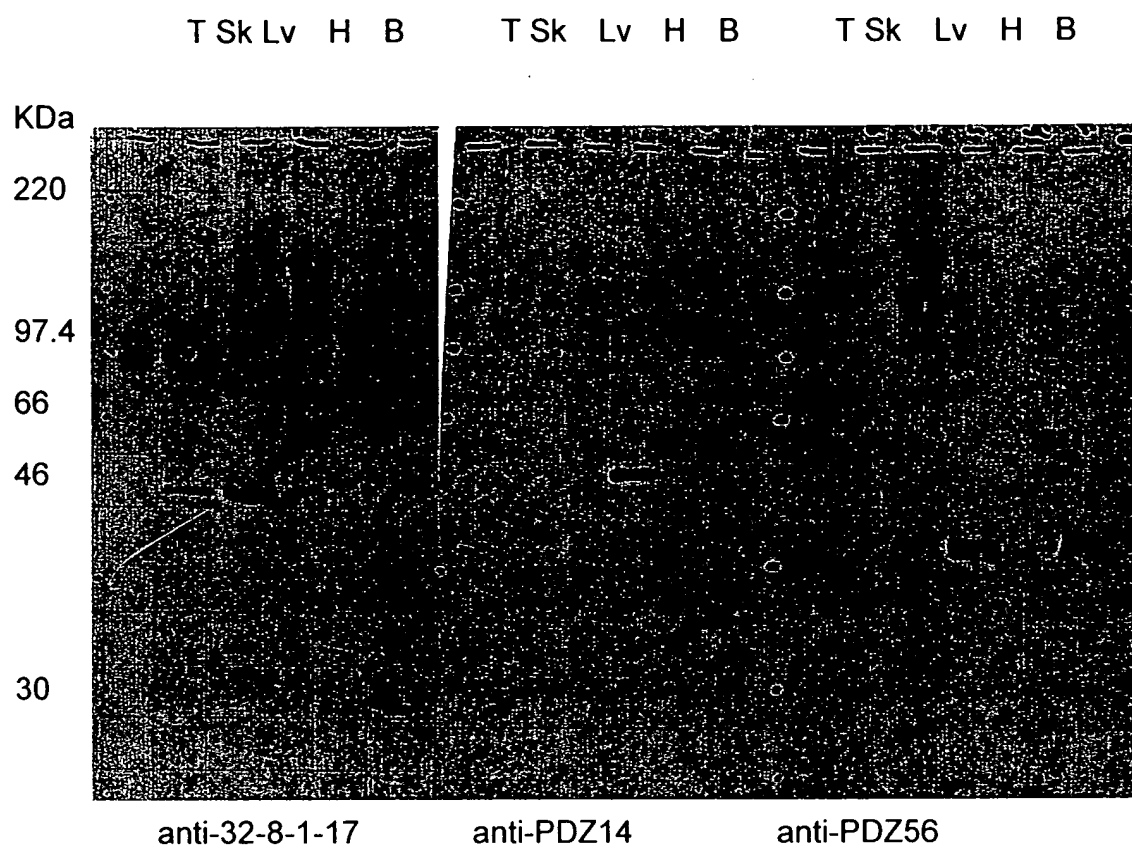


FIG. 15

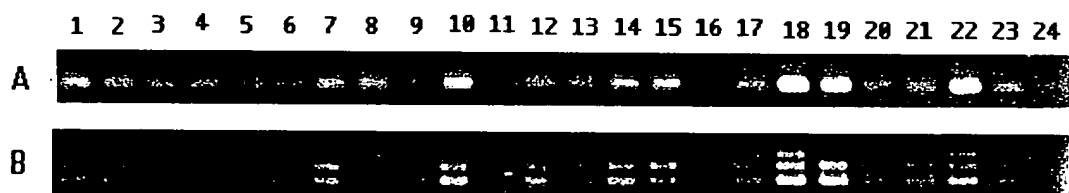


FIG. 16

1	50		351	400
FI1750	TTCTTCTGT GCTACCCGAT TCAGCTGGAA AGGGCTCTGA GTACCTGCTT	FI1750	ATAAAATTA CTTATGTGCC TGCAGACAT TTGGAAGAGT TCAAAATAG	
FI1850	TTCTTCTGT GCTACCCGAT TCAGCTGGAA AGGGCTCTGA GTACCTGCTT	FI1850	ATAAAATTA CTTATGTGCC TGCAGACAT TTGGAAGAGT TCAAAATAG	
FI1950	TTCTTCTGT GCTACCCGAT TCAGCTGGAA AGGGCTCTGA GTACCTGCTT	FI1950	ATAAAATTA CTTATGTGCC TGCAGACAT TTGGAAGAGT TCAAAATAG	
51	100		401	450
FI1750	GAACAGAGCT CCCTGGCCTG TAATGCTGAG TGTGTCATGC TTCAAAATGT	FI1750	CTTGGGACAA CAATCTCGAA GAGTAATGCC ACTGGATATT TTTTCTTCAT	
FI1850	GAACAGAGCT CCCTGGCCTG TAATGCTGAG TGTGTCATGC TTCAAAATGT	FI1850	CTTGGGACAA CAATCTCGAA GAGTAATGCC ACTGGATATT TTTTCTTCAT	
FI1950	GAACAGAGCT CCCTGGCCTG TAATGCTGAG TGTGTCATGC TTCAAAATGT	FI1950	CTTGGGACAA CAATCTCGAA GAGTAATGCC ACTGGATATT TTTTCTTCAT	
101	150		451	500
FI1750	ATCTAAGAA TCCTTTGAAA GGAATATTAA TATAGCAAAA GGCATTTCTA	FI1750	ACACTGGCAG AGACATTCCA GAATTACCAG AGCGAGAAGA GCGAGAGCGT	
FI1850	ATCTAAGAA TCCTTTGAAA GGAATATTAA TATAGCAAAA GGCATTTCTA	FI1850	ACACTGGCAG AGACATTCCA GAATTACCAG AGCGAGAAGA GCGAGAGCGT	
FI1950	ATCTAAGAA TCCTTTGAAA GGAATATTAA TATAGCAAAA GGCATTTCTA	FI1950	ACACTGGCAG AGACATTCCA GAATTACCAG AGCGAGAAGA GCGAGAGCGT	
151	200		501	550
FI1750	GCCTAGCAAT GACAGTTAGT GCTAATAAAG ATGGCTTGGG GATGATCGTT	FI1750	GAAGAAGCG AACTTCAMAA CACAGCATAT AGCAATTGCA ATCAGGCCAG	
FI1850	GCCTAGCAAT GACAGTTAGT GCTAATAAAG ATGGCTTGGG GATGATCGTT	FI1850	GAAGAAGCG AACTTCAMAA CACAGCATAT AGCAATTGCA ATCAGGCCAG	
FI1950	GCCTAGCAAT GACAGTTAGT GCTAATAAAG ATGGCTTGGG GATGATCGTT	FI1950	GAAGAAGCG AACTTCAMAA CACAGCATAT AGCAATTGCA ATCAGGCCAG	
201	250		551	600
FI1750	CGAAGCATT TTCAATGAGG TCCATTAGT CCAGATGGCC GGATTGCCAT	FI1750	CCGGCTGGAA CTCTGGAGAG AACCAAGCAA ATCCTTAGGC ATCAGCATTG	
FI1850	CGAAGCATT TTCAATGAGG TCCATTAGT CCAGATGGCC GGATTGCCAT	FI1850	CCGGCTGGAA CTCTGGAGAG AACCAAGCAA ATCCTTAGGC ATCAGCATTG	
FI1950	CGAAGCATT TTCAATGAGG TCCATTAGT CCAGATGGCC GGATTGCCAT	FI1950	CCGGCTGGAA CTCTGGAGAG AACCAAGCAA ATCCTTAGGC ATCAGCATTG	
251	300		601	650
FI1750	TGCGGACTGC ATCTTGCTCA TTAATGAAGA GTCTACCATC AGTGTAAACCA	FI1750	TTGCTGGAGC AGGGATGGGG AGTCGGCTAA GCAATGGAGA AGTGATGAGG	
FI1850	TGCGGACTGC ATCTTGCTCA TTAATGAAGA GTCTACCATC AGTGTAAACCA	FI1850	TTGCTGGAGC AGGGATGGGG AGTCGGCTAA GCAATGGAGA AGTGATGAGG	
FI1950	TGCGGACTGC ATCTTGCTCA TTAATGAAGA GTCTACCATC AGTGTAAACCA	FI1950	TTGCTGGAGC AGGGATGGGG AGTCGGCTAA GCAATGGAGA AGTGATGAGG	
301	350		651	700
FI1750	ATGCCCAGGC AGCAGCTATG TTGAGAAGAC ATTCTCTCAT TGGCCCTGAC	FI1750	GGCATTTTCA TCAAAATGT TCTGGAAGAT AGTCCAGCTG GCAAAAATGG	
FI1850	ATGCCCAGGC AGCAGCTATG TTGAGAAGAC ATTCTCTCAT TGGCCCTGAC	FI1850	GGCATTTTCA TCAAAATGT TCTGGAAGAT AGTCCAGCTG GCAAAAATGG	
FI1950	ATGCCCAGGC AGCAGCTATG TTGAGAAGAC ATTCTCTCAT TGGCCCTGAC	FI1950	GGCATTTTCA TCAAAATGT TCTGGAAGAT AGTCCAGCTG GCAAAAATGG	

FIG. 17

	701				750
FH750	AACCTTGAAA	CCTGGAGATA	GAATCGTAGA	G	
FH850	AACCTTGAAA	CCTGGAGATA	GAATCGTAGA	GGTGGATGGA	ATGGACCTCA
FH950	AACCTTGAAA	CCTGGAGATA	GAATCGTAGA	GGTGGATGGA	ATGGACCTCA
	751				800
FH750					
FH850	GAGATGCAAG	CCATGAACAA	GCTGTGGAAG	CCATTCCGAA	AGCAGGCAAC
FH950	GAGATGCAAG	CCATGAACAA	GCTGTGGAAG	CCATTCCGAA	AGCAGGCAAC
	801				850
FH750					
FH850	CCTGTAGTCT	TTATGGTATA	GAGCTTTATT	ACAGACCAAG	G
FH950	CCTGTAGTCT	TTATGGTACA	GAGCATTATA	AACAGACCAA	GGAAATCCCC
	851				900
FH750					
FH850					
FH950	TTTGCCTTCC	TTGCTGCACA	ACCTTTACCC	TAAGTACAAC	TTCAGCAGCA
	901				950
FH750					GCACCCAGT
FH850					GCACCCAGT
FH950	CTAACCCATT	TGCTGACTCT	CTACAAATCA	ACGCCGACAA	GGCACCCAGT
	951	965			
FH750	CAGTCAGAGT	CAGAG			
FH850	CAGTCAGAGT	CAGAG			
FH950	CAGTCAGAGT	CAGAG			

FIG. 18

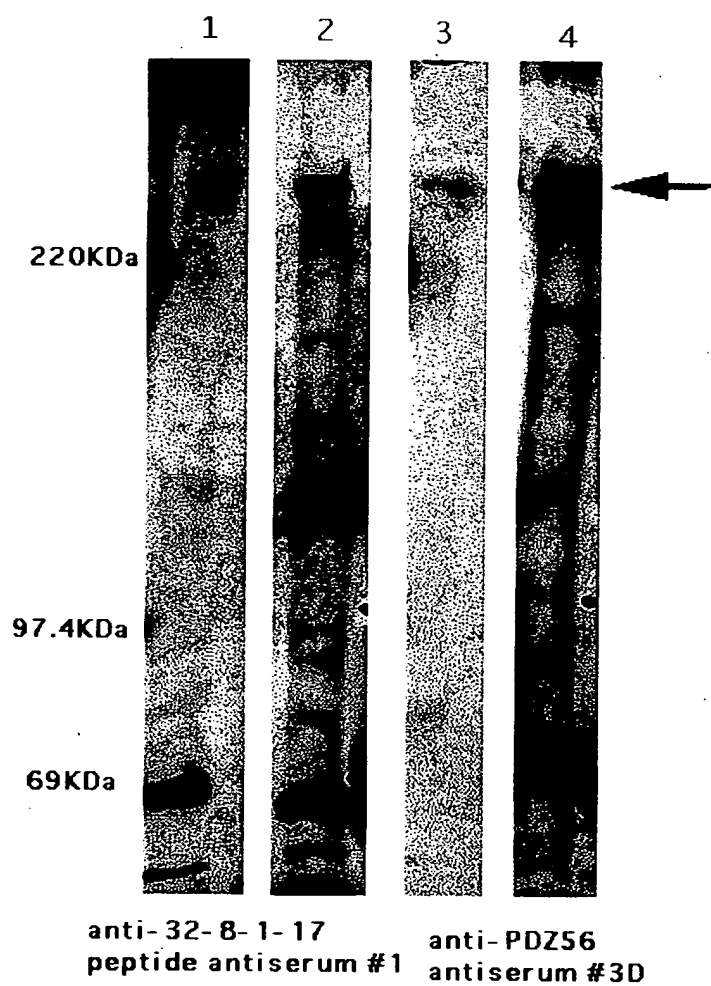


FIG. 19

```

1545 FISLLKATKATVKYLTIHAENPDSQAVPSAAGAASGEKNSSQSIAVPQSG 1594
      IIIIIIII : IIII   IIII.I   III:I..II. II
2 FISLLKATKATVKYLIVRAENPACPAPVSSAVTVSGERKONSQTAPV... 48

1595 SPEIPESIRNTRSSTPAIFASDPATCPIIPGCETTIEISKRTGLLSIV 1644
      .: I . IIIIIIII:IIIIIIIIIIIIIIIIII :III.IIIIIIII
49 APDLEPIPSTRSRSSTPAVFASDPATCPIIPGCETTIGVSKQGTGLLSIV 98

1645 GCSDTLLGAFIHIEVVEECAACKGRULWAGDQILLEWNGIDLRKATHIDEAI 1694
      IIIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
99 GCSDTLLGAHIEVVEECAACKGRULWAGDQILLEWNGIDLRKATHIDEAI 148

```

FIG. 20

[illegible]

1618 ATCP1IPCCETTIEISKRTGLGLSIVGCSOTLLGAFI1HEVYEECAACK 1667
 1 ATCP1IPCCETTIEISKRTGLGLSIVGCSOTLLGAFI1HEVYEECAACK 50
 1668 DGRLLWAGDQILEVNCIDLRKATHIDEAINVLRQTPQRVRLTLRYDEAPYKE 1717
 51 DGRLLWAGDQILEVNCIDLRKATHIDEAINVLRQTPQRVRLTLRYDEAPYKE 100
 1718 EEVCJTLTIELQKPKCKGLGLSIVCKRNDTCVFVSDIVKGGIADPDGRLI 1767
 101 EEVCJTLTIELQKPKCKGLGLSIVCKRNDTCVFVSDIVKGGIADADGRLM 150
 1768 QCQDQILLVNGEDVRNASQEAVALKCSLCTVTLEVCRIKACPFHSERRP 1817
 151 QCQDQILLVNGEDVRNATQEAVALKCSLCTVTLEVCRIKACPFHSERRP 200
 1818 SQTSSQVSEGLSFTFPLSGSSTSESLESSKKNALASEIQGLRTVEMKK 1867
 201 SQTSSQVSEGLSFTFPLSGSSTSESLESSKKNALASEIQGLRTVEMKK 250
 1868 GPTDSLGLSIAGCVCSPLGDVPFIAMMPTGVAAGTQKLRVCDRIVTIC 1917
 251 GPTDSLGLSIAGCVCSPLGDVPFIAMMPTGVAAGTQKLRVCDRIVTIC 300
 1918 GTSTEGMTHTQAVNLLKNASGSIEMQVWAGGDVSVVTGTHQEPASSLSF 1967
 301 GTSTEGMTHTQAVNLLKNASGSIEMQVWAGGDVSVVTGTHQEPASSLSF 350
 1968 TGLTSTSIQDDLPQCKSITLERCPDGLGFSIVGCGCSPHCDLP1YVK 2017
 351 TGLTSSSIFQDDLPQCKSITLERCPDGLGFSIVGCGCSPHCDLP1YVK 400

2018 TVFAKGAASEDGRLKRGDQIIAVNQSLEGVTHEEAVAILKRTKGTVTLM 2067
 401 TVFAKGAASEDGRLKRGDQIIAVNQSLEGVTHEEAVAILKRTKGTVTLM 450
 2068 VLS 2070
 451 VLS 453

FIG. 21



FIG. 22

1 MLEATDKNRALIAERLQTKLBERGVANEDKLSLKSVLQSPFSQILS 50
 III IIIIII IIIIII IIIIII IIIIII IIIIII IIIIII IIIIII
 1 MLETIONKRALQAERLQSKLBERGVANEDKLSLKSVLQSPFSQILS 50
 51 LQTSVQQLKQDVNIATSNI EYAVIHILSPAVIPTLQNESFLLSPNG 100
 IIII.IIIIII:II III I :II I I :I II.II IIII.II
 51 LQTSVQQLKQDVNVATLATANADIAHTPQSSAIIISNLSQSESILLSPNC 100
 101 NLEALTCPGI.PIHNGKPAACDEFDQLIKNMAQGRIVEVFELLKPPSGGLG 149
 IIII:III I ..III:I IIII.IIIIII:IIIII IIII
 101 NLEATSGCAPPAKDCKPACEELDQLIKSMAQGRIVEIFELLKPPCGGLG 150
 150 FSWGLRSENGELGIFVQEIQECVAIRDGRLKETQILAINQALDQT 199
 IIIIII IIIIII IIIIII IIIIII IIIIII IIIIII IIIIII
 151 FSWGLRSENGELGIFVQEIQECVAIRDGRLKETQILAINQVLDQT 200
 200 ITHQQAISILQAKDVTQLVIARCSLPQLVSPIVSRSPSAASTISAHNP 249
 IIIIII IIIIII:IIIII:II :II IIIIII:IIIII
 201 ITHQQAISILQAKDVTQLVIARCSLPQHSSPRI SRSPSAASTVSAHNP 250
 250 VIMQVETIELVNDOSGLGFIIGCKATGVIVKTIILPGGVADQHGRCLSCG 299
 IIII.IIIIII IIIIII IIIIII IIIIII IIIIII IIIIII
 251 TIMQVETIELVNDOSGLGFIIGCKATGVIVKTIILPGGVADQHGRCLSCG 300
 300 DIIIXITGDTDLAGASSEQAQVLRQCGNRVKLMARSABERTAPTALGI 349
 IIIIII IIIIII IIIIII IIIIII IIIIII I:II II.II
 301 DIIIXITGDTDLAGASSEQAQVLRQCGNRVKLMARGAVEETPAPSSLCI 350
 350 TLISSSTPTPELRVDASTQKNEESETFDVELTKNVQGLGITIAGYIDCK 399
 IIII III I:IIIII IIIIII IIIIII IIIIII IIIIII
 351 TLISSS.TSTSEMRVDASTQKNEESETFDVELTKNVQGLGITIAGYIDCK 399

400 LEPSGIFVKSITKSSAVEHDCRIQICDQIIIVDGTNLQGTNQAVEVLR 449
 IIIIII IIIIII IIIIII IIIIII IIIIII IIIIII IIIIII
 400 LEPSGIFVKSITKSSAVEHDCRIQICDQIIIVDGTNLQGTNQAVEVLR 449
 450 HTCGQTVLLTLARQKQAEALMSREDVTYKADLSPVNAIIKENYKDED 499
 IIIII IIIII:I IIII: IIII IIII IIIII
 450 HTCGQTVLLTLARQKQAEALMSREDVTYKADLSPVNAIIKENYKDED 492
 500 FLSTRNTNIIPTTEECCYPLLSAEIEEIDAQKQEAALLTKWQRIINGIN 549
 II I.I.II IIIIII I:II II I IIIIII IIIIII
 493 SLSLRSTSIILPTEECYPLLSLEETEEDVQ.QEAALLTKWQRIINGIN 541
 550 EIVVAIVSKFSENSGLGISLEATVGHFIRSVLPCEGPGVGHSGKLFSGOEL 599
 IIIIII IIIIII IIIIII IIIIII IIIIII IIIIII IIIIII
 542 EIVVAIVSKFSENSGLGISLEATVGHFIRSVLPCEGPGVGHSGKLFSGOEL 591
 600 LEVNCITILLGENQDVVNIILKELPIEVTWCCRRTPPTTQSELDSDLC 649
 IIIII IIIIII IIIIII IIIIII IIIIII IIIIII II.IIII
 592 LEVNCITILLGENQDVVNIILKELPIEVTWCCRRTPPTTALSEVDSLDII 641
 650 DIELTEKPHVDLGEFICSSSEDPVLTAMTAGQSTEEVQAPLAWTEAGIQ 699
 I:IIIII:IIIII IIIIII III.II I.II:II IIIIII
 642 DIELTEKPHVDLGEFICSSSEDPVLTAMTAGQSTEEVQAPLAWTEAGIQ 691
 700 IIIMLEKSGKLGFSILDYQDPIDPASTVIIIRSLVPGIAEKDGRLLPGD 749
 I IIIII:IIIII IIIIII IIII:IIIII IIIIII IIII
 692 AIELEKSGKLGFSILDYQDPIDPASTVIIIRSLVPGIAEKDGRLLPGD 741
 750 RLAFVNDVNLNENSLLEAEALKGAPSGTVRIGVAKPLPSPEEGYVSAN 799
 IIIIII:IIIII.IIIIII IIIIII IIIIII IIIIII IIIIII
 742 RLAFVNDVNLNENSLLEAEALKGAPSGTVRIGVAKPLPSPEEGYVSAN 791
 800 EDSFLYPHPSCEAGLADKPLPRADIALVCTNDADLVDESTFESPSPEN 849
 II.II II.II.II.II IIIIII:II:II III III:II:I
 792 EDTFLCSPIHCKEGLSOKALPRADIALIDTPDAESVAESRFESQFSPDN 841

[illegible]

FIG. 23

1750 FVSDIVKGGIADPDGRLIQGDQILLVNGEDVRNASQEAVAALLKCSLGTV 1799
||||||| |||||:|||||||

1734 FVSDIVKGGIADADGRIMQGDQILLVNGEDVRNATQEAVAALLKCSLGTV 1783

1800 TLEVGRKAGPFHSERRPSQTSQVSEGLSSFTPLSGSSTSESLESSSK 1849
||||||| |||||||:||||| ||||| | || |||| |||||

1784 TLEVGRKAAPFHSERRPSQSSQVSESSLSSFSLPRSGIHTSESSESSAK 1833

1850 KNALASEIQGLRTVEIKKGPTDSLGISIAGGVCSPGDPVIFIAAHPTG 1899
||||||| |||||:||||| ||||| ||||| |||||

1834 KNALASEIQGLRTVEIKKGPADALGLSIAGGVCSPGDPVIFIAAHPTG 1883

1900 VAAQTQKLRVGDRIVTICGTSTEGMHTQAVNLLKNASCSIEVQVAGGD 1949
||||||| |||||:|||||||:|||||||

1884 VAAQTQKLRVGDRIVTICGTSTDGMHTQAVNLLKNASCSIEVQVAGGD 1933

1950 VSVVTGHHQEPASSLSFTGLTSTSI FQDDLGPQCKSITLERGPDGLGF 1999
||||||| || |. |. |||||.. || ||||| |. |||:|||||||

1934 VSVVTGHHQELANPCLFTGLTSSITFPDDLGPQCKSITLERGPDGLGF 1983

2000 SIVGGYCSPHGDLPIYKTVFAKGAASEGRLKRGDQIIAVNQSLEGVT 2049
||||||| |||||:|||||||

1984 SIVGGYCSPHGDLPIYKTVFAKGAASEGRLKRGDQIIAVNQSLEGVT 2033

2050 HEEAVAILKRTKGTVTLMVLS 2070
|||||||

2034 HEEAVAILKRTKGTVTLMVLS 2054

FIG. 24

PDZ-A RHVEVFELLK .PPSGGLGFS VVGLRS.... .ENRGEL.GI FVQEIQEGSV
 PDZ-B QHMETIEL.V .NDGSGLGFG IIGGK..... .ATGV IVKTILPGGV
 PDZ-C SETFDVELTK .N.VQGLGIT IAGYIG.... .DKKLEPSGI FVKSITKSSA
 PDZ-D YEIVVAHVSK FSSENSGLGIS LEATVGH.. .FIRSVLPEGP
 PDZ-E AGIQHIMLEK .G.SKGLGFS ILDYQD.... .PIDPASTVI IIRSLVPGGI
 PDZ-F SFERTINIAK .G.NSSLGMT VSANKDGL.. .GM IVRSIIHGGA
 PDZ-G NQPRRVELWR .EPSKSLGIS IVGGRCMGSR LSNGEVMRGI FIKHVLEDRP
 PDZ-H GELHMIELEK .G.HSGLGLS LAG..... .NKDRSRMSV FIVGIDPNGA
 PDZ-I KNVQHLELPK .D.QGGLGIA IS..... .EEDTLSGV IIKSLTEHGV
 PDZ-J GCETTIEISK .G.RTGLGLS IVG..... .GSDTLLGAF IIEVYEEGA
 PDZ-K CDTLTIELQK .KPGKGLGLS IVGKRN.... .DTGV FVSDIVKGGI
 PDZ-L QGLRTVEMKK .GPTDSLGIS IAGGVG.... .SPLGDV.PI FIAMMHPTGV
 PDZ-M PQCKSITLER .GP.DGLGFS IVGGYG.... .SPHGDL.PI YVKTVFAKGA

PDZ-A AHRDGRKLET DQILAINGQA LDQTITHQQA ISILQKAKDT VQLVIAR
 PDZ-B ADQHGRLCSCG DHILKIGDTD LA.GMSSEQV AQVLRQCGNR VKLMIAR
 PDZ-C VEHDGRIQIG DQIIAVDGTN L.QGFTNQQA VEVLRHTGQT VLLTLMR
 PDZ-D VGHSGKLFSG DELLEVNGIT LL.GENHQDV VNILKELPIE VTMVCCR
 PDZ-E AEKDGRLLPG DRLMFVNDVN L.ENSSLEEA VEALKGAPSG TVRIGVA
 PDZ-F ISRDGRIAIG DCILSINEES TI.SVTNAQA RAMLRRHSLI GPDIKIT
 PDZ-G AGKNGTLKPG DRIVEVDGMD LRD.ASHEQA VEAIRKAGNP VVFMVQS
 PDZ-H AGKDGRLLQIA DELLEINGQI L.YGRSHQNA SSIKCAPSK VKIIFIR
 PDZ-I AATDGRLLKVG DQILAVDDEI V.VGYPIEF ISLLKTAKMT VKLTIHA
 PDZ-J ACKDGRLLWAG DQILEVNGID L.RKATHDEA INVLRQTPQR VRLTLR
 PDZ-K ADPDGRLLIQG DQILLVNGED VR.NASQEA AALLKCSLGT VTLEVGR
 PDZ-L AAQTQKLRVG DRIVTICGTS T.EGMTHQQA VNLLKNASGS IEMQVVA
 PDZ-M ASEDGRLLKRG DQIIAVNGQS L.EGVTHEEA VAILKRTKGT VTLMVLS

FIG. 25

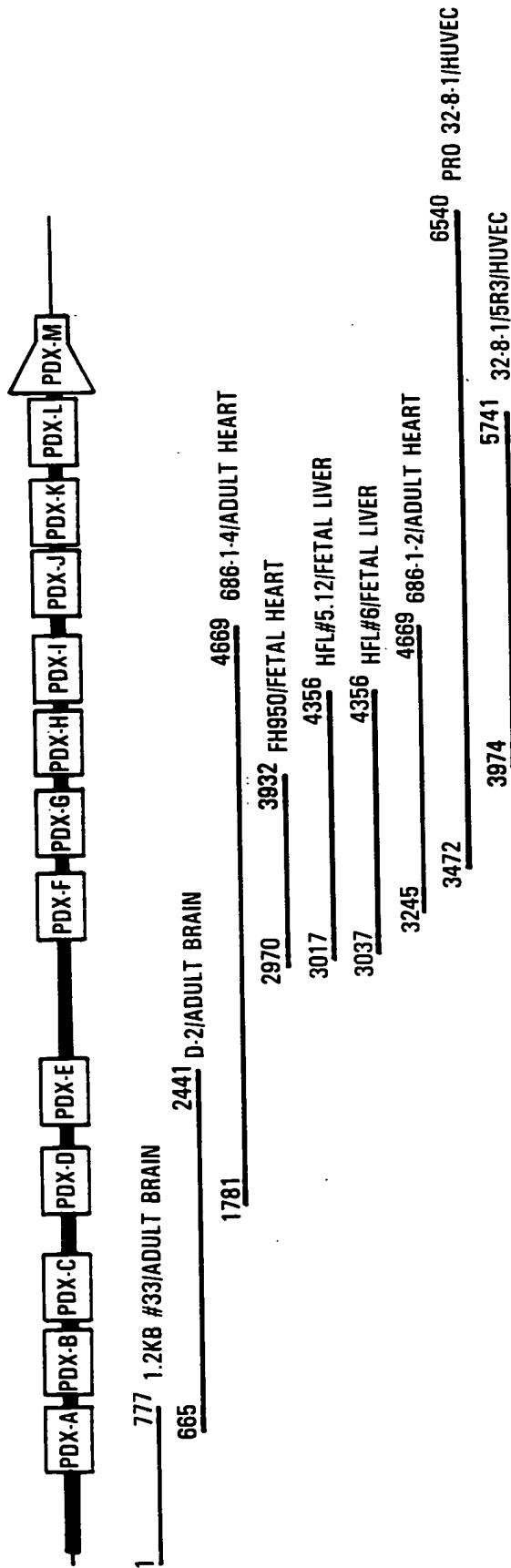


FIG. 26